# REINWARDTIA

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BULLETIN DU JARDIN BOTANIQUE DE BUITENZORG (BULLETIN OF THE BOTANIC GARDENS, BUITENZORG)

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## NOTES ON THE FLORA OF JAVA-VII\*

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#### SUMMARY

In connexion with Backer's "Beknopte Flora van Java," a revised key to, and short descriptions of, the species of Baccaurea Lour. (Euphorbiaccae) are given; the name Lannea coromandelica (Houtt.) Merr, is accepted; and three new species of Labiatae are validly published and described, viz., Pogostemon javanicus Backer ex Adelb., P. hortensis Backer ex Adelb., and Plectranthus petracus Backer ex Adelb.

Inhroduction - In Part IV it was explained in the introduction that, while elaborating the "Beknopte Flora van Java" at Leyden during the years of World War II, much important material was not at hand and could not be obtained on loan.

This applied in particular to the collections of Herbarium Bogoriense. I have been unable after the war, mainly because of more pressing administrative and organizing duties, to find the time necessary to make up for what could not be done when preparing the accounts of the families for which I am responsible. Yet, in some few cases I am now in the position to offer some improvements, for instance in regard with the key to the species of Baccaurea and the correct name of Lannea wodier,

The following Parts were issued so far: I, in Bull, Jard, bot. Buitz, III 16: 107-110, 1939; II, in Blumen 5: 490-525, 1945; III, ibid, 6: 302-309, 1948; IV, ibid, 6: 310-336, 1948; V, ibid, 6: 358-362, 1950; VI, ibid, 6: 363-406, 1950.

Apart from these, two other papers were published outside the present series but they serve the same purpose. These are: J. Th. Koster, Notes on Malay Compositae (in Blumen 4: 482-492, 1941) and A. D. J. Meeuse, Notes on Javanese Verbenaceae (in Blumen 5: 66-80, 1942).

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1 The stencilled emergency edition ("Nooduitgave") of the "Beknopte Flora van Java" is quoted belew in a strongly abbreviated form. Thus, N. Fl. III Fam. XXV:
12. 1941 means Beknopte Flora van Java, Nooduitgave, Aflevering (Fascicle) III, Family XXV, page 12, anno 1941.

To indicate the herbaria when citing specimens or when mentioning where specimens are kept the abbreviations of Lanjouw & Staffeu's "Index Herbariorum, Part I. The Herbaria of the world" (Regnum Vegetabile 2), are used. So BO means Herb. Bogor (Buitenzorg); L. Herb, Leyden; U. Herb, Utrecht,

<sup>\*</sup> The present series serves the purpose of publishing such observations, descriptions (inclusive of new species), and nomenclatorial corrections that have accumulated during the preparation of the "Beknopte Flora van Java," now being published in an emergency edition under the supervision of Dr. C. A. Backer (see Introduction in Part II), and that could not well be incorporated in that work.

Moreover, I recently finished the elaboration of the Labiates for the "Beknopte Flora van Java," which was started already at Leyden and which has now appeared. Three new species recognized by Dr. C. A. Backer and which I accepted from his numerous notes put at my disposal, still need to be validly published. These are also included in the present paper.

#### EUPHORBIACEAE

#### BACCAUREA

Baccaures Lour., Flor. cochinch. 661. 1790; Pax & Hoffmann in Engl., PflR., Heft 81: 45, 1922.

The key to the species of Baccaurea (N. Fl. IV-c Fam. CXII: 26. 1943), should be replaced by the following one.

#### KEY TO THE JAVANESE SPECIES OF BACCAUREA

#### 1. Plants d.

- Bracts adnate to primary side-branches of the inflorescence. Nerves of leaves highly elevated beneath, forming a regular lattice-work; adult leaves beneath densely hairy to glabrous.
  - Adult leaves glabrous to densely stellate-tomentose beneath; primary lateral nerves 6-9 at both sides of the midrib. . . . . . . . . 1. B. deflexa
  - Adult leaves with simple hairs beneath; primary lateral nerves 13—16 at both sides of the midrib. . . . . . . . . . . . 6. B. motleyana
- Bracts not adnate to primary side-branches of the inflorescence. Nerves of leaves less highly elevated beneath, more or less regularly reticulate; adult leaves glabrous.
  - Pedicels jointed, Stamens 4—8. Axis of inflorescence usually densely shorthairy. Leaves at base of branches scale-like, others well developed.
    - Rudiment of pistil as long as or shorter than the stamens, Bracts only 1 per primary side-branch of inflorescence.
      - 6. Rudiment of pistil columnar. . . . . . . . . . . . . . . . 3. B. javanica
      - 6. Rudiment of pistil discoid. . . . . . . . . . . . . 2. B. dulcis
    - Rudiment of pistil as long as or longer than the stamens. Bracts 3 per primary side-branch of inflorescence.
      - Inflorescences usually on the older branches in the axils of leaves already fallen.
         T. B. vacemosu
  - Pedicels not jointed. Stamens 4. Axis of inflorescence usually glabrous or nearly so. Leaves all well developed. . . . . . . . . . . . . 4. B. lanccolata

#### 1. Plants Q.

- 8. Ovary 3-5-celled.
  - 9. Axis of inflorescence hairy. Pedicels jointed.
    - Adult leaves glabrous beneath, the nerves not very much elevated, more or less regularly reticulate, base cureate, 7-20 cm long, 3-11 cm wide.

- 11. Fruit green-yellow; seeds colourless-white. . . . 7. B. racemosa
- 11. Fruit red; seeds blue, . . . . . . . . . . . 5. B. minutiflora
- Adult leaves hairy beneath, the nerves highly elevated, forming a regular lattice-work, base blunt to cordate, 20—35 cm long, 7.5—17 cm wide.

6. B. motleyana

- 9. Axis of inflorescence glabrous, Pedicels whether or not jointed.
  - 12. Pedicels not jointed, Ovary (3-)4-5-celled. . . . . 4. B. lanccolata
  - 12. Pedicels jointed close to the flower, Ovary 3-celled. . . . 2. B. dulcis
- 8. Ovary 2(-3)-celled.

  - 13. Nerves of leaves highly elevated beneath, forming a regular lattice-work.

1. B. deflexa

#### I. BACCAUREA DEFLEXA Mueller Arg.

Baccaurea deflexa Muell, Arg. in DC., Prodr. 15 (2): 462, 1866,

Adult leaves elliptic-obovate, base acute to rounded, top acuminate, glabrous to densely stellate-tomentose beneath, glabrous above, 6.5—19 cm long, 3.5—11 cm wide; nerves highly elevated beneath, forming a regular lattice-work, primary lateral nerves 6—9 at both sides of the midrib; petiole tomentose, 2—4.5 cm long. d: Inflorescences hairy to tomentose, up to 6 cm long; primary side-branches (1—)3-flowered; bracts adnate to the side-branches, free part small, ovate-triangular. Flowers sessile. Tepals tomentose on both surfaces, triangular-ovate, 0.5—0.75 mm long. Stamens 5—7. Rudiment of pistil short, broad, tomentose. ?: Inflorescences 7—13 cm long. Pedicels 0.75—1 mm long. Tepals elliptic-ovate, green-yellow, 1.5—2.5 mm long, desciduous. Ovary 2(—3)-celled, ovoid-globose, rather acute, stellate-tomentose. Ripe fruit unknown. 10 m high; fl./fr. in July; West Java; alt. 220 and 550 m; forest edge.

## 2. BACCAUREA DULCIS (Jack) Mueller Arg.

Pierardia dulcis Jack in Trans, Linn. Soc., London 14: 120, 1825. — Bacenurca dulcis (Jack) Muell. Arg. in DC., Prodr. 15 (2): 460, 1866.

Twigs glabrous. Leaves at base of branchlets scale-like, well developed ones elliptic-oblong-obovate, base cuneate, top very shortly and bluntly acuminate, adult glabrous, 8—25 cm long, 3.5—12 cm wide; nerves not very much elevated beneath, more or less regularly reticulate; petiole glabrous, 1—6 cm long. d: Inflorescences 6—11 cm long; axis usually densely short-hairy; bracts only 1 per primary side-branch and not adnate to them, triangular. Flowers pale-yellow, fragrant; pedicels jointed, short-hairy, 2—3 mm long. Tepals ovate-elliptic-about triangular, very short-hairy on both surfaces, about 2 mm long. Stamens 6. Rudiment of pistil as long as or shorter than the stamens, discoid, hairy, ?: Inflorescences 3—14 cm long; axis glabrous or nearly so; bracts as with d. Pedicels Jointed close to the flower, about glabrous, up to 6 mm long. Tepals decid-

uous, narrowly oblong, very short-hairy on both surfaces, up to 8 mm long. Ovary 3-celled, ovoid-globular, very short-hairy; ovules 1—2 per cell. Fruit trigonous-globular, green-yellow, about 3.5 cm broad, glabrous; seeds ellipsoid, outside white, more inwardly purple-red, between sweet and sour, up to 1.5 cm broad, 10—15 m high; from South Sumatra, in Java sometimes cultivated as a fruit-tree.

## 3. BACCAUREA JAVANICA (Blume) Mueller Arg.

Adenocropis javanica Bl., Bijdr. 579. 1826. — Baccaurea javanica (Bl.) Muell. Arg. in DC., Prodr. 15 (2): 465. 1866.

Twigs soon glabrous. Leaves at base of branchlets scale-like, well developed ones oblong-lanceolate-obovate, base narrowly cuneate-acuminate, top rather long bluntly acuminate, adult glabrous, 7.5-17 cm long, 3—8 cm wide; nerves not very much elevated beneath, more or less regularly reticulate; petiole soon glabrous, 1—4.75 cm long, ♂: Inflorescences about 3.5-10 cm long; axis usually densely short-hairy; bracts only 1 per primary side-branch and not adnate to them, ovate-triangular (sometimes 3-dentate). Pedicels jointed, very short-hairy, up to 2 mm long. Tenals ovate-triangular, mealy hairy on both surfaces, 1.25-1.5 mm long. Stamens 4—6. Rudiment of pistil as long as or shorter than the stamens, columnar, thick, with a cavity at the top, short-hairy, 2: Inflorescences with axis very short- or scarcely hairy, 2.5-6 cm long; bracts triangular, very short-ciliate. Pedicels articulate rather close to the flower, 2-2.5 mm long. Tepals desciduous, oblong, inside mealy hairy, outside nearly glabrous, 4-5.5 mm long. Ovary 2(-3)-celled, short-ovoid, short-adpressedly pubescent; cells biovulate. Fruit about ovoid-globose, apiculate, about glabrous, green-yellow, dehiscent, 1-1.5 cm broad, 1-2-seeded; seeds about globose or semiglobose, sky-blue, sweet, 8-11 mm broad, 10-20 m high; fl./fr. the whole year; whole of Java; alt. 0.25-1000 m; forests.

# 4. BACCAUREA LANCEOLATA (Miquel) Mueller Arg.

Hedycarpus lanceolatus Miq., Flor. Ind. bat. 1 (2): 359. 1859. — Baccaurea lanceolata (Miq.) Muell. Arg. in DC., Prodr. 15 (2): 457, 1866.

Leaves elliptic-lanceolate, base acute, top acuminate, adult glabrous, 7—35 cm long, 3—15 cm wide; nerves not very highly elevated beneath, more or less regularly reticulate; petiole glabrous, 2—10 cm long, d: Axis of 10—15 cm long inflorescences usually glabrous or nearly so; bracts not adnate to primary side-branches, small, triangular, with thin, ciliate-dentate margin, Pedicels not jointed. Tepals ovate-orbicular, outside glabrous, inside tomentose, 1—2 mm long. Stamens 4. Rudiment of pistil small, cylindrical-obovoid, short-tomentose. T: Inflorescences, pedicels and tepals as with d; last ones, however, strongly keeled and 2—3 mm long. Ovary (3—)4—5-celled, oblong-ovoid, soft-hairy. Fruit ellipsoid, glabrous, up to 5 cm long, 6—14 m high; fl./fr. in April, May, and October; Bantam (West Java); alt. 850 m.

# 5. BACCAUREA MINUTIFLORA Mueller Arg.

Baccaurea minutiflora Muell, Arg. in DC., Prodr. 15 (2): 463, 1866. Baccaurea sanguinea J. J. S. in Icon, Bogor, 4: 25 t. 309, 1910.

Twigs soon glabrous. Leaves at base of branchlets scale-like, well developed ones elliptic-oblong-obovate, base cuneate to about acuminate, top abruptly acuminate, adult glabrous, 7-20 cm long, 3-11 cm wide; nerves not very highly elevated beneath, more or less regularly reticulate; neticle soon glabrous, 0.5-7 cm long, d: Inflorescences usually on the younger twigs in the axils of leaves still present, 9-24 cm; axis usually densely short-hairy; bracts 3 per primary side-branch, not adnate to them, ovate-triangular or elliptic, Flowers pale-yellow, fragrant; pedicels jointed. short-hairy, 1.5-3.5 mm long, Tepals orbicular-ovate-triangular-elliptic, tomestose on both surfaces, 1.5-4 mm long. Stamens 6-8. Rudiment of pistil as long as or longer than the stamens, large, thick, short-soft-hairy, sometimes radiantly ribbed. ?: Flowers pale-yellow, fragrant; pedicels thick, very short-soft-hairy, 0.5-6.5 mm long, Tepals deciduous, about elliptic-oblong-ovate, short-soft-hairy, 0.75-1 cm long, Ovary about globular, tapering at the top, soft-hairy; cells biovulate. Fruit red, about globular, acuminate, very sparsely short-soft-hairy, 3- or sometimes 4celled, about 2.75 cm broad; seeds blue, 1 per cell, ellipsoid-trigonous, shortsoft-hairy, 6-7 m high; perhaps once collected in Java.

# 6. BACCAUREA MOTLEYANA Mueller Arg.

Pierardia motleyana Muell. Arg. in Singer, Flor, ratisb. 516, 1865, not seen. — Baccaurea motleyana (Muell, Arg.) Muell. Arg. in DC., Prodr. 15 (2): 461, 1866.

Adult leaves elliptic-lanceolate, base blunt to cordate, top acuminate, with simple hairs beneath, above glabrous, 20—35 cm long, 7.5—17 cm wide; nerves highly elevated beneath, forming a regular lattice-work, primary lateral nerves 13—16 at both sides of the midrib; petiole hairy, 3—10 cm long. 3: Inflorescences 13—25 cm long, hairy to tomentose; bracts 1 per primary side-branch, adnate to them, free part lanceolate. Pedicels 1.5 mm long. Tepals hairy on both surfaces, elliptic-oblong, acute, 1—1.5 mm long. Stamens 4—6. Rudiment of pistil short, broad, with a cavity at the top, hairy. 9: Inflorescences up to 35 cm long; bracts 3 per primary side-branch, free part elliptic-oblong-ovate, acute. Pedicels jointed, up to 2 mm long. Tepals oblong, 4—5 mm long. Ovary 3-celled, ovoid to globose, silky. Fruit ovoid to globose, sparsely short-hairy, 2.5—3 cm long; seeds 1 per cell, about 1.5 cm long. About 25 m high; sometimes cultivated.

# 7. BACCAUREA RACEMOSA (Reinwardt ex Blume) Mueller Arg.

Coccomelia rucemosa Reinw. ex Bl., Cat. Gewas. Bultenz. 110, 1823, nomen nudum.

— Pierardia (sphalm. Pierandia) racemosa (Reinw.) ex Bl., Bijdr. 579, 1826. — Baccanten racemosa (Reinw. ex Bl.) Muell. Arg. in DC., Prodr. 15 (2): 461, 1866.

Twigs soon glabrous, Leaves at base of branchlets scale-like, well developed ones elliptic-oblong-obovate, base cuneate, top bluntly acuminate, adult glabrous, 7-20 cm long, 3-11 cm wide; nerves not very highly elevated beneath, more or less regularly reticulate; petiole soon glabrous, 0.5-4.5 cm long. d: Inflorescences usually on the older branches in the axils of leaves already fallen, 5-12.5 cm long; axis usually densely shorthairy; bracts 3 per primary side-branch, not adnate to them, broad- and short-ovate-triangular, middle largest. Pedicels jointed, hairy, 2.5-3 mm long. Tepals orbicular-ovate-elliptic, pale-yellow, mealy hairy on both surfaces, 1.75-3 mm long. Stumens 4-8, seated in cavities at foot of pistilrudiment. Rudiment of pistil as long as or longer than the stamens, thick, somewhat angular, somewhat widened and lobed at the top, hairy, 9: Inflorescences 10-19 cm long; bracts short-ovate-triangular, hairy. Pedicels mealy hairy, 0.5 mm long. Tepals oblong, mealy hairy on both surfaces, 0.75—1 cm long, Ovary about globose, very short-adoressedly hairy; cells biovulate. Fruit green-yellow, about globular, indehiscent, finely glabrous, 3- or sometimes 4-celled, 2.5 cm broad; seeds colourless-white, 1—2 per cell, about trigonous, between sweet and sour, 1.75 cm long, 0.75-1.5 cm broad, 15-25 m high; fr./fl, probably the whole year; whole of Java; alt. 1-1000 m; forests, also run wild, often cultivated for fruit,

#### ANACARDIACEAE

## LANNEA COROMANDELICA (Houttuyn) Merrill

Dialium coromandelicum Houtt., Nat. Hist. 2: 39 t. 5 f. 2, 1774, not seen. — Lannea coromandelicu (Houtt.) Merr. in J. Arn. Arb. 19: 353, 1938.

Odina wodier Roxb., Hort. beng. 29, 1814, nomen nudum; Fl. ind., Ed. 2, 2; 293. 1832. — Lunnen wodier (Roxb.) Adelb. in N. Fl. VII Fam. CLIII: 13, 1948.

I am very thankful to Dr. E. D. Merrill for drawing my attention to his identification of Houttuyn's species as a Lannea; see his paper, "Houttuyn's new genera and new species," (l.c.), which I overlooked when naming the Javan material as Lannea wodier.

## LABIATAE

# Pogostemon javanicus Backer, nov. spec .- Fig. 1

Herba robusta, erecta. Folia superiora majore parte plus quam duplo longiora quam lata, acuta, remote serrulata; folia inferiora crasse biserrata usque ad pinnatiloba, dentibus acutis. Pseudospicae paniculiformiter approximatae; axes verticillastrorum haud elongati. Flores sessiles. Dentes calycis anguste triangulares, acuti; dentes duo anteriores aliis minime longiores. Corolla rubro-violacea; labium inferius obtusum usque ad rotundatum. Filamenta in parte superiore dense villosa.

Stem bluntly quadrangular to almost terete, not or only very shallowly canaliculate toward the apex, very densely short-hairy toward the top.

Upper leaves ovate-oblong shortly lanceolate, narrowly cuneate, base blunt or rounded, top acute to faintly acuminate; lower leaves ovate; all rather densely shorthairy on both surfaces, thick-herbaceous, 1-13 cm long, 0.5-7.5 em broad; petiole short-hairy, 0-5 cm long. Terminal panieles narrow. 25-40 cm long; false spikes often not interrupted toward the top, 1-9.5 cm long; bracts ovateoblong-lanceolate, base blunt to broadly rounded, top acute or faintly acuminate, hairy like the leaves, their tops often exserted from the spikes, Calyx tubular, rather densely short- to long-hairy. inside of throat and teeth or toward mouth sparsely adpressedly short-hairy, in anthesis 5-6 mm long. Corolla in general longtubular to trumpet-shaped, toward mouth or on lips only more or less densely short-hairy, 7 mm long; lobes of upper lip blunt or rounded.

Type.—Zollinger s.n. = BO 29706.

SPECIMENS EXAMINED.—JAVA. Besuki: Banjuwangi, fl., Zollinger n.n. = BO 29706 (type). — Culta. Hort. Bogor., fl., May 24, 1893. Hallier f. ?D. 403 = BO 29705. — WITHOUT ANY DAYA. fl., BO 29704.

Distinguishable from P. menthoides Bl. by the hairy stamens and from the other Javan species by the blunt lower lip of the corolla.



Fig. 1. Pogostemon javanicus Backer ex Adelb.: habit (× 0.3); calyx (× 3.3); stamen (× 3.3). — After Zollinger s.n. (type).

### Pogostemon hortensis Backer, nov. spec .- Fig. 2

Herba erecta, aromatica; specimina vetiora frutescentia. Caulis supra nodos plerumque maxime incrassata. Folia altiora vulgo minus quam duplo longiora quam lata; omnia folia crasse biserrata, dentibus acutis. Pseudospicae paniculiformiter approximatae, non plus quam 1 cm diametro, saepe interruptae; verticillastrorum axes in cincinnos sat claros clongati, abor tione saepe minus quam 4 per verticillastrum; bracteae ab utroque latere cincinnorum axium in seriebus imbricatis. Flores sessiles. Calyx glandibus occupatus; dentes anguste triangulares, acuti, sat pares. Labium inferius corollae acutum. Filamenta in parte superiore dense villosa.

Stem bluntly quadrangular, the flattened sides shallowly and broadly canaliculate, densely brown short-hairy, with many minute verruculae. Leaves ovate-elliptic-oblong, base narrowly or broadly cuneate and often oblique, usually acutely passing into the petiole, top acute or acuminate, rarely blunt, rather densely adpressedly short-hairy on both surfaces, herbaceous, 2-12 cm long, 1-8 cm wide; petiole densely adpressedly short-hairy, often very narrowly winged toward the top, tinged with purple, 0.5-7 cm long, Terminal panicles very loose; false spikes 2-5.5 cm long; cincinni facing one direction, up to 1 cm long (measured along the flowers); bracts and bracteoles ovate-elliptic-lanceolate, base broadly rounded or blunt, top acute or acuminate, outside rather densely and rather long-hairy, Calyx narrowly campanulate-tubular, outside rather densely short to rather long-hairy, inside of upper half sparsely adpressedly hairy, in anthesis about 6 mm long. Corolla in general tubular to somewhat trumpet-shaped, only a little hairy on the lobes of the upper lip, 7 mm long; lobes of upperlip blunt or rounded.

TYPE.—Buysman 128 = U 2175.

Specimens examined (all ster. except the fl. type).— JAVA. Bantam: s. coll., s.m. = BO 29703. Djakarta: Tjiburial, ca. 1250 m, Apr. 27, 1924, Bakhuizen van den Brink f. 3254 = U 26655A. Pasuruan: Tengger Mts., near Nongkodjadjar, 1200 m, July 9, 1907, Buysman 128 = U 2175 (type).— Culta. Djakarta, Bogor, hort. Heyne, ca. 260 m, 1917, Backer s.m. = BO 29697—29700; Priangan, Sindanglaja. ca. 1050 m. Jan., 1904, Valeton s.m. = BO 29696; Hort. Bogor. (Tjikeumeuh), May 10, 1893, Hallier f. ?D. 306a = BO 29693, 29694; ibid., May 1, 1893, Van Romburgh ?D. 306b = BO 29701; ibid., s. coll., s.m. = BO 29695.— WITHOUT ANY DATA. BO 29702.

Distinguishable from *P. menthoides* Bl. by the hairy stamens, from *P. javanicus* Backer by the acute lower lip of the corolla, from *P. cristatus* Hassk. and *P. cablin* Benth. by the narrow false spikes, and from *P. heyneanus* Benth. by the coarsely serrata leaves with acute teeth.

### Plectranthus petracus Backer, nov. spec .- Fig. 3

Herba erecta vel ascendens, aromaticus, saepe suffrutescens. Caulis apicem versus, foliu et inflorescentiae dense albo-lanatac, atque breviter



Fig. 2. Popostemon horiensis Backer ex Adelb.: habit (× 0.25); inflorescence (nat. size); flower (× 2.5). — After Buyaman 128 (type).

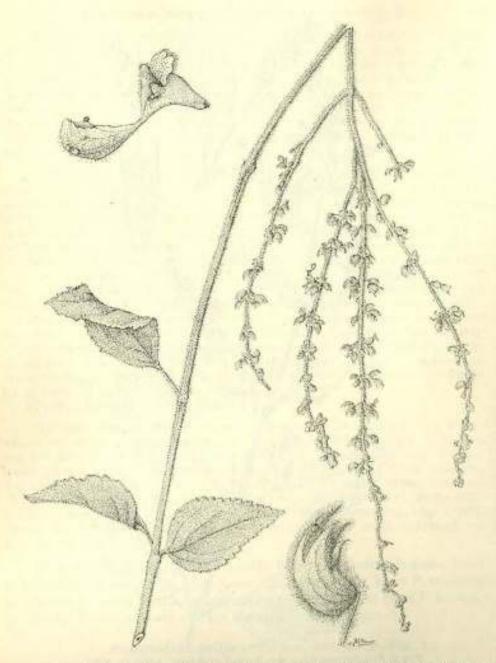


Fig. 3. Pleetranthus petrucus Backer ex Adelh.; habit (× 0.3); calyx (× 3.3); corolla (× 3.3), — After Backer 36387 (type).

glanduloso-pilosae. Folia carnosa. Dichasia verticillastrorum sessila, fasciculiformia, ~-flora, axibus non elongatis. Dentes calycis acutissimi; anteriores triangulares, duo posteriores subulati usque ad fere lineares. Corolla alba, labio superiore violaceo-suffuso, labiis pilosis et glandibus flavis aut rubris; tubus medius deflexus, quo medio loco intus annulatus pilis paucis atque tuberculis. Discus anterior liguliformis.

Stem terete or almost so. Leaves elliptic or ovate, base from cuneate to faintly cordate, top acute or rather blunt, crenate-serrate, 4—10 cm long, 3—6 cm wide; petiole 1—3 cm long. False spikes 3—17.5 cm long, running into a much-branched, 14—21.5 cm long, panicle without floral leaves and which in the type is rather remarkably candelabrum-shaped; bracts rhomboid, sessile, acuminate, or, after dropping of the acumen, emarginate, outside woolly, inside, except the sparsely haired top, glabrous, 2.5 mm long and broad. Flowers declinate. Calyx campanulate, in anthesis somewhat, later conspicuously, curved, inside glabrous, 3—5 mm long. Corolla 7—8 mm long; tube from base to the middle gradually widened; central lobes of upper lip almost circular, side-lobes bluntly triangular; lower lip, when unfolded, spathulate, blunt.

Type.—Backer 36387 = L 947.85-176.

Specimens examined.—JAVA. Besuki: Idjen-plateau, ridge of Redjengan, Sempel, 1100 m, fl., June 11, 1927, chaos of pieces of rocks, frequent, Backer 36387 = L 947.85-176 (type, duplicates -174 and -175, all L); Redjengan, 1450 m, fl., July 7, 1916, on rocks, localy frequent, Koorders 43207 = L 950,161-463.

Distinguishable from the two other Javanese species of *Plectrantus* by its sessile verticillasters.